Elliott EMC Test Date			
Client:	Symbol Technologies	Job Number:	J65981
Model:	CB3000	Test-Log Number:	T66007
		Project Manager:	Sheareen
Contact:	Alan Parrish		
Emissions Spec:	FCC 15.401	Class:	Radio
Immunity Spec:	-	Environment:	-

For The

# **Symbol Technologies**

Model

**CB3000** 

Date of Last Test: 11/8/2006



Client:	Symbol Technologies	Job Number:	J65981
Model:	CB3000	Test-Log Number:	T66007
		Project Manager:	Sheareen
Contact:	Alan Parrish		
Emissions Spec:	FCC 15.401	Class:	Radio
Immunity Spec:	-	Environment:	-

### **EUT INFORMATION**

The following information was collected during the test sessions(s).

### **General Description**

The EUT is a Wireless bridge router that is designed to provide wireless internet and network service. Since the EUT would be placed on a table top during operation, the EUT was treated as table-top equipment during testing to simulate the end-user environment. The electrical rating of the EUT is 120 Volts, 60 Hz, 1 Amps.

**Equipment Under Test** 

Manufacturer	Model	Description	Serial Number	FCC ID
Symbol Technology	CB3000	wireless bridge router	6146529900788	H9PCB3000

#### **Other EUT Details**

None

### **EUT Antenna (Intentional Radiators Only)**

The antenna connects to the EUT via a non-standard reverse polirity antenna connector, thereby meeting the requirements of FCC 15.203.

#### **EUT Enclosure**

The EUT enclosure is primarily constructed of plastic. It measures approximately 17.5 cm wide by 10 cm deep by 3 cm high.

**Modification History** 

Mod.#	Test	Date	Modification
1			
2			
3			

Modifications applied are assumed to be used on subsequent tests unless otherwise stated as a further modification.



Client: Symbol Technologies	Job Number: J65981
Model: CB3000	T-Log Number: T66007
	Project Manager: Sheareen
Contact: Alan Parrish	
Emissions Spec: FCC 15.401	Class: Radio
Immunity Spec: -	Environment: -

### **Test Configuration #1**

The following information was collected during the test sessions(s).

### **Local Support Equipment**

Manufacturer	Model	Description	Serial Number	FCC ID
Dell	PP01L	Laptop	01014	DoC
Epson	740	Printer	A6R1320291	-

### **Remote Support Equipment**

Manufacturer	Model	Description	Serial Number	FCC ID
None	-	-	-	-

### **Cabling and Ports**

Port	Connected To	Cable(s)		
		Description	Shielded or Unshielded	Length(m)
Ethernet	Laptop	Cat5	Unshielded	1.0
AC Power	AC Mains	Multiwire	Unshielded	1.8
RF	Antenna	-	-	-

### **EUT Operation During Radio Tests**

EUT was set to transmit at maximum power at 6Mbps on channels 5500, 5600, and 5700 MHz.

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V	U				
Client:	Symbol Technologies	Job Number:	J65981		
Model:	CB3000	T-Log Number:	T66007		
	CB3000	Account Manager:	Sheareen		
Contact:	Alan Parrish				
Spec:	FCC 15.401	Class:	N/A		

### **Radiated Emissions**

### **Test Specifics**

Objective: The objective of this test session is to perform engineering evaluation testing of the EUT with respect to

the specification listed above.

Date of Test: 11/7/2006 Config. Used: 1
Test Engineer: Mehran Birgani Config Change: None
Test Location: Chamber #2 EUT Voltage: 120V/60Hz

### **General Test Configuration**

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

Ambient Conditions: Temperature: 18 °C

Rel. Humidity: 44 %

### Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	RE, 30 - 18000 MHz Spurious Emissions	FCC Part 15.407 RSS 210	Pass	24.3dBµV/m (16.4µV/m) @ 1327.8MHz (-29.7dB)

#### **Modifications Made During Testing:**

No modifications were made to the EUT during testing

### **Deviations From The Standard**

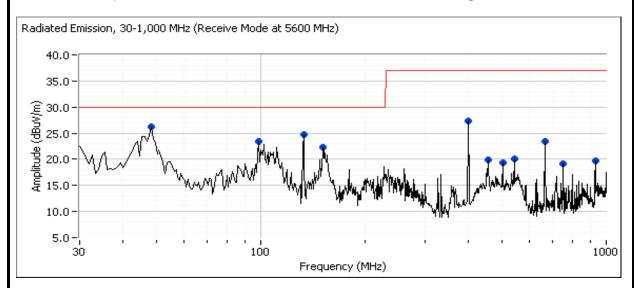
No deviations were made from the requirements of the standard.

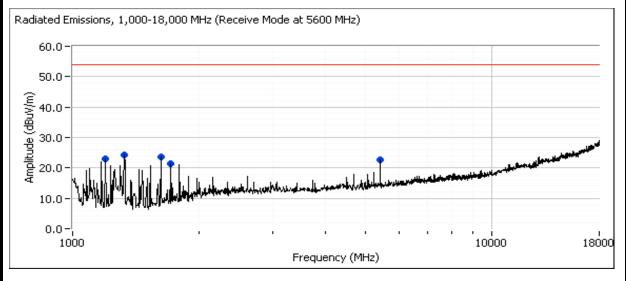
# **Elliott**

## **EMC Test Data**

_			
Client:	Symbol Technologies	Job Number:	J65981
Model:	CD2000	T-Log Number:	T66007
	CB3000	Account Manager:	Sheareen
Contact:	Alan Parrish		
Spec:	FCC 15.401	Class:	N/A

#### Run #1: Radiated Spurious Emissions, 30 - 18000 MHz. Receive Mode, Center Channel @ 5600 MHz







_			
Client:	Symbol Technologies	Job Number:	J65981
Model	CB3000	T-Log Number:	T66007
wodei.	CB3000	Account Manager:	Sheareen
Contact:	Alan Parrish		
Spec:	FCC 15.401	Class:	N/A

### Run #1: Radiated Spurious Emissions, 30 - 18000 MHz. Receive Mode, Center Channel @ 5600 MHz

Frequency	Level	Pol	15.407 /	RSS 210	Detector	Azimuth	Height	Comments
MHz	$dB\mu V/m$	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
1327.750	24.3	V	54.0	-29.7	Peak	58	1.7	
1622.250	23.5	Н	54.0	-30.5	Peak	196	1.7	
1199.500	23.1	V	54.0	-30.9	Peak	5	1.7	
5402.000	22.7	V	54.0	-31.3	Peak	251	1.7	
1712.500	21.5	Н	54.0	-32.5	Peak	210	1.7	
47.811	26.3	V	30.0	-3.7	Peak	106	1.7	
132.871	24.7	V	30.0	-5.3	Peak	91	1.7	
98.396	23.5	V	30.0	-6.5	Peak	45	1.7	
150.283	22.3	Н	30.0	-7.7	Peak	164	1.7	
398.637	27.4	Н	37.0	-9.6	Peak	119	1.7	
666.016	23.4	V	37.0	-13.6	Peak	50	1.7	
540.007	20.0	V	37.0	-17.0	Peak	85	1.7	
455.030	19.9	V	37.0	-17.1	Peak	298	1.7	
930.812	19.8	V	37.0	-17.2	Peak	3	1.7	
500.006	19.3	V	37.0	-17.7	Peak	231	1.7	
750.090	19.2	V	37.0	-17.8	Peak	176	1.7	



v			
Client:	Symbol Technologies	Job Number:	J65981
Model	CB3000	T-Log Number:	T66007
wodei.	CB3000	Account Manager:	Sheareen
Contact:	Alan Parrish		
Spec:	FCC 15.401	Class:	N/A

### **Radiated Emissions**

### **Test Specifics**

The objective of this test session is to perform final qualification testing of the EUT with respect to the Objective:

specification listed above.

Date of Test: 11/7/2006 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: SVOATS #2 EUT Voltage: 120V/60Hz

### General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

Ambient Conditions: Temperature: 17 °C

Rel. Humidity: 82 %

### Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1a - c	RE, 30 - 40,000 MHz Spurious Emissions	FCC Part 15.209 / 15.247( c)	Pass	42.5dBµV/m (133.4µV/m) @ 17098.6MHz (-11.5dB)

### **Modifications Made During Testing:**

No modifications were made to the EUT during testing

#### **Deviations From The Standard**

No deviations were made from the requirements of the standard.

#### **EMC Test Data** Job Number: J65981 Client: Symbol Technologies T-Log Number: T66007 Model: CB3000 Account Manager: Sheareen Contact: Alan Parrish Spec: FCC 15.401 Class: N/A Run #1a: Radiated Spurious Emissions, 30 - 40000 MHz. Low Channel @ 5500 MHz Frequency 15.209 / 15E Level Pol Detector Azimuth Height Comments Margin Pk/QP/Avg MHz $dB\mu V/m$ v/h Limit degrees meters 10990.33 37.5 ٧ 54.0 -16.5 AVG 328 1.0 -24.7 PK 10990.33 49.3 ٧ 74.0 328 1.0 ٧ 39.3 54.0 -14.7**AVG** 49 1.9 16498.64 16498.64 50.7 ٧ 74.0 -23.3 PK 49 1.9 10999.33 Н 54.0 -16.9 **AVG** 143 1.0 37.1 -25.2 PK 10999.33 48.8 Η 74.0 143 1.0 16500.12 39.1 Н 54.0 -14.9 AVG 54 1.0 16500.12 50.3 Η 74.0 -23.7 PΚ 54 1.0 For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set to -Note 1: 27dBm/MHz (~68dBuV/m). Run #1b: Radiated Spurious Emissions, 30 - 40000 MHz. Center Channel @ 5600 MHz 15.209 / 15.247 Pol Detector Azimuth Frequency Level Height Comments MHz $dB\mu V/m$ v/h Limit Margin Pk/QP/Avg meters degrees 11201.38 37.5 Η 54.0 -16.5 AVG 0 1.0 11201.38 74.0 -24.4 PK 0 49.6 Η 1.0 16798.63 40.4 AVG 155 Η 54.0 -13.61.0 16798.63 51.9 Η 74.0 -22.1 PΚ 155 1.0 11200.60 ٧ 54.0 AVG 1.2 37.5 -16.5 0 ٧ -25.0 11200.60 49.0 74.0 PK 0 1.2 16801.37 40.2 ٧ 54.0 -13.8 **AVG** 103 1.0

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set to - 27dBm/MHz (~68dBuV/m).

PΚ

103

1.0

16801.37

51.5

٧

74.0

-22.5

#### **EMC Test Data** Job Number: J65981 Client: Symbol Technologies T-Log Number: T66007 Model: CB3000 Account Manager: Sheareen Contact: Alan Parrish Spec: FCC 15.401 Class: N/A Run #1c: Radiated Spurious Emissions, 30 - 40000 MHz. High Channel @ 5700 MHz 15.209 / 15.247 Frequency Level Pol Detector Azimuth Height Comments Margin Pk/QP/Avg $dB\mu V/m$ v/h MHz Limit degrees meters 17098.56 42.5 Н 54.0 -11.5 AVG 69 1.0 42.4 ٧ -11.6 AVG 360 17098.92 54.0 1.4 38.1 ٧ -15.9 AVG 11400.41 54.0 266 1.0 11399.87 254 38.1 Η 54.0 -15.9 **AVG** 1.0 17098.56 54.0 Н 74.0 -20.0 PΚ 69 1.0 17098.92 PK 53.6 ٧ 74.0 -20.4 360 1.4 11400.41 ٧ -23.7 50.3 74.0 PΚ 266 1.0 11399.87 50.2 Η 74.0 -23.8 PK 254 1.0 For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set to -Note 1: 27dBm/MHz (~68dBuV/m).

Page 9 of 19

Client:	Symbol Technologies	Job Number:	J65981
Model	CB3000	T-Log Number:	T66007
wodei.	CD3000	Account Manager:	Sheareen
Contact:	Alan Parrish		
Standard:	FCC 15.401	Class:	N/A

### **FCC Part 15 Subpart E Tests**

### **Test Specific Details**

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the

specification listed above.

Date of Test: 11/6/2006 9:51

Test Engineer: Juan Martinez

Test Location: SVOATS #1

Config. Used: 1

Config Change: None

EUT Voltage: 120V/60Hz

### **General Test Configuration**

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators and cables used.

Ambient Conditions: Temperature: 13 °C

Rel. Humidity: 34 %

### Summary of Results

Run#	Test Performed	Limit	Pass / Fail	Result / Margin
1	Power, 5470 - 5725MHz	15.407(a)(2)	Pass	19.7 dBm
1	PSD, 5470 - 5725MHz	15.407(a)(2)	Pass	7.14
1	26dB Bandwidth	15.407	Pass	> 20 MHz
1	99% Bandwidth	RSS 210	Pass	17.8 MHz
2	Peak Excursion Envelope	15.407(a) (6)	Pass	11.53 dB
3	Antenna Conducted - Out of Band Spurious	15.407(b)	Pass	All emissions below the -27dBm/MHz limit

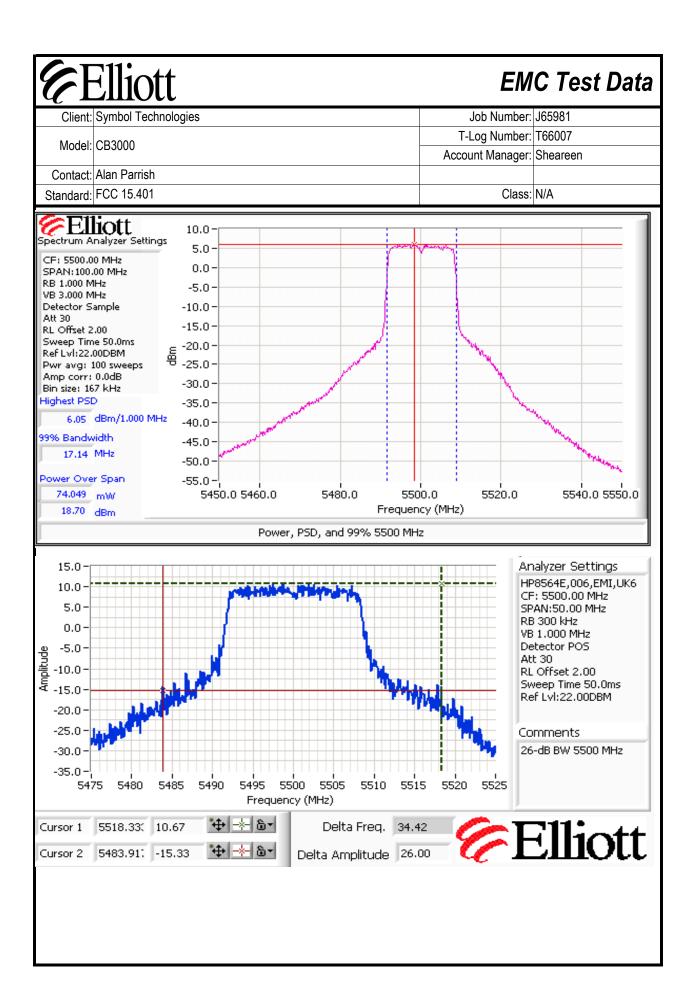
### **Modifications Made During Testing:**

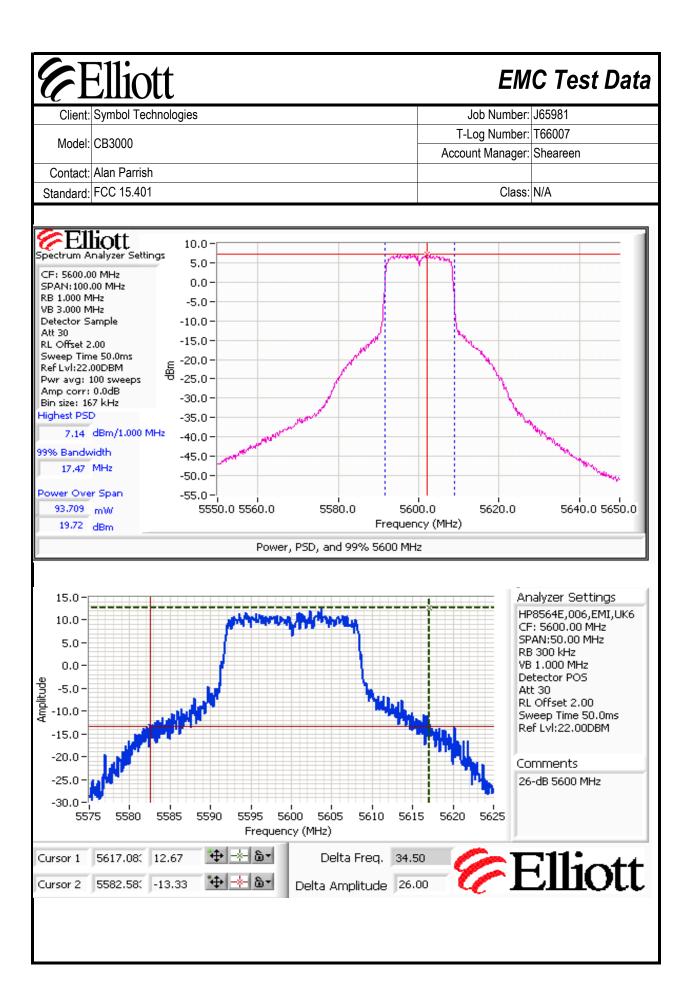
No modifications were made to the EUT during testing

#### **Deviations From The Standard**

No deviations were made from the requirements of the standard.

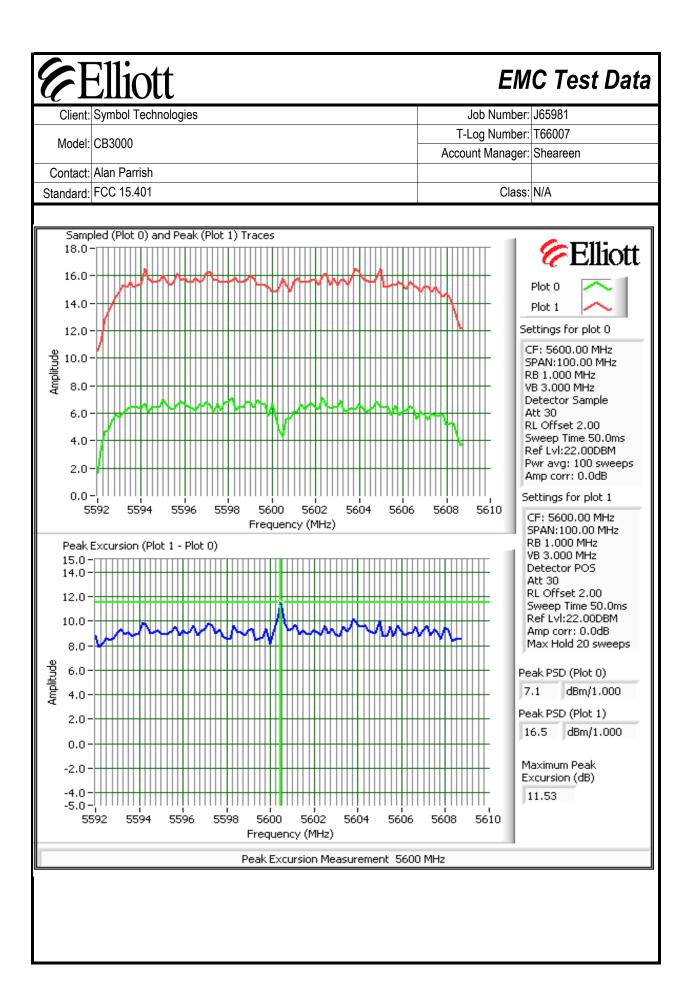
T-Log Number: T66007   Account Manager: Sheareen		Ellic Symbol Te		es				J	ob Number:	J65981	
Contact: Alan Parrish  Standard: FCC 15.401 Class: N/A  Run #1: Bandwidth, Output Power and Power spectral Density  Antenna Gain: 4 dBi  Frequency Software Bandwidth Output Power¹ dBm Power (Watts) Measured FCC Limit RSS Limit³  5500 22.0 34.4 17.1 18.7 24.0 0.074 6.05 11.0 9.4 Pass 5600 22.0 34.5 17.5 19.7 24.0 0.094 7.14 11.0 10.3 Pass 5700 22.0 38.5 17.8 19.7 24.0 0.094 7.12 11.0 10.2 Pass 5700 22.0 38.5 17.8 19.7 24.0 10.094 7.12 11.0 10.2 Pass 5700 22.0 38.5 17.8 19.7 24.0 10.094 7.12 11.0 10.2 Pass 5700 22.0 10.094 7.12 10.0 10.2 Pass 5700 22.0 10.094 7.12 10.0 10.2 Pass 5700 22.0 10.094 7.12 10.0 10.2 Pass 5700 20.094 7.12 10.0 10.2 Pass 5700 20.094 7.12 10.0 10.2 Pass 5700 20.094 7.12								T-Lo	og Number:	T66007	
Standard: FCC 15.401  Run #1: Bandwidth, Output Power and Power spectral Density  Antenna Gain: 4 dBi  Frequency Software Setting 26dB 99%4 Measured Limit (Watts) Measured FCC Limit RSS Limit S500 22.0 34.4 17.1 18.7 24.0 0.074 6.05 11.0 9.4 Pass 5600 22.0 34.5 17.5 19.7 24.0 0.094 7.14 11.0 10.3 Pass 5700 22.0 38.5 17.8 19.7 24.0 0.094 7.12 11.0 10.2 Pass Output power measured using a spectrum analyzer (see plots below):  Note 1: RBW=1MHz, VB=3 MHz, sample detector, power averaging on (transmitted signal was continuous) and power integration over 100 MHz  Note 2: Measured using the same analyzer settings used for output power.  For RSS210 the measured value of the PSD (see note 3) must not exceed the average value (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB.							Accour	nt Manager:	Sheareen		
Antenna Gain: 4 dBi  Frequency Software Setting 26dB 99%4 Measured Limit (Watts) Measured FCC Limit RSS Limit 5500 22.0 34.4 17.1 18.7 24.0 0.074 6.05 11.0 9.4 Pass 5600 22.0 34.5 17.5 19.7 24.0 0.094 7.14 11.0 10.3 Pass 5700 22.0 38.5 17.8 19.7 24.0 0.094 7.12 11.0 10.2 Pass Output power measured using a spectrum analyzer (see plots below):  Note 1: RBW=1MHz, VB=3 MHz, sample detector, power averaging on (transmitted signal was continuous) and power integration over 100 MHz  Note 2: Measured using the same analyzer settings used for output power.  Note 3: For RSS210 the measured value of the PSD (see note 3) must not exceed the average value (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB.									Class	NI/A	
Antenna Gain:    4   dBi				ower and	Dower chee	tral Dancity	•		Class:	N/A	
Frequency Software Bandwidth Output Power¹ dBm Power PSD² dBm/MHz Resurced (MHz) Setting 26dB 99%⁴ Measured Limit (Watts) Measured FCC Limit RSS Limit³ Power 5500 22.0 34.4 17.1 18.7 24.0 0.074 6.05 11.0 9.4 Pass 5600 22.0 34.5 17.5 19.7 24.0 0.094 7.14 11.0 10.3 Pass 5700 22.0 38.5 17.8 19.7 24.0 0.094 7.12 11.0 10.2 Pass Output power measured using a spectrum analyzer (see plots below):  Note 1: RBW=1MHz, VB=3 MHz, sample detector, power averaging on (transmitted signal was continuous) and power integration over 100 MHz  Note 2: Measured using the same analyzer settings used for output power.  Note 3: For RSS210 the measured value of the PSD (see note 3) must not exceed the average value (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB.	Kuii #1. Da	·	•			tiai Delisity					
(MHz) Setting 26dB 99% <sup>4</sup> Measured Limit (Watts) Measured FCC Limit RSS Limit <sup>3</sup> 5500 22.0 34.4 17.1 18.7 24.0 0.074 6.05 11.0 9.4 Pass 5600 22.0 34.5 17.5 19.7 24.0 0.094 7.14 11.0 10.3 Pass 5700 22.0 38.5 17.8 19.7 24.0 0.094 7.12 11.0 10.2 Pass Output power measured using a spectrum analyzer (see plots below):  Note 1: RBW=1MHz, VB=3 MHz, sample detector, power averaging on (transmitted signal was continuous) and power integration over 100 MHz  Note 2: Measured using the same analyzer settings used for output power.  For RSS210 the measured value of the PSD (see note 3) must not exceed the average value (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB.		Antenr	na Gain:	4	dBi						
(MHz) Setting 26dB 99% <sup>4</sup> Measured Limit (Watts) Measured FCC Limit RSS Limit <sup>3</sup> 5500 22.0 34.4 17.1 18.7 24.0 0.074 6.05 11.0 9.4 Pass 5600 22.0 34.5 17.5 19.7 24.0 0.094 7.14 11.0 10.3 Pass 5700 22.0 38.5 17.8 19.7 24.0 0.094 7.12 11.0 10.2 Pass 5700 22.0 38.5 17.8 19.7 24.0 0.094 7.12 11.0 10.2 Pass 5700 Pass 5	requency	Software	Band	dwidth	Output Po	ower <sup>1</sup> dBm	Power	Р	SD <sup>2</sup> dBm/M	lHz	Posult
5600 22.0 34.5 17.5 19.7 24.0 0.094 7.14 11.0 10.3 Pass 5700 22.0 38.5 17.8 19.7 24.0 0.094 7.12 11.0 10.2 Pass Output power measured using a spectrum analyzer (see plots below):  Note 1: RBW=1MHz, VB=3 MHz, sample detector, power averaging on (transmitted signal was continuous) and power integration over 100 MHz  Note 2: Measured using the same analyzer settings used for output power.  Note 3: Note 3: For RSS210 the measured value of the PSD (see note 3) must not exceed the average value (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB.				99% <sup>4</sup>				Measured	FCC Limit	RSS Limit <sup>3</sup>	Nesuit
Output power measured using a spectrum analyzer (see plots below):  Note 1:  RBW=1MHz, VB=3 MHz, sample detector, power averaging on (transmitted signal was continuous) and power integration over 100 MHz  Note 2: Measured using the same analyzer settings used for output power.  Note 3:  Not									_		Pass
Output power measured using a spectrum analyzer (see plots below):  Note 1: RBW=1MHz, VB=3 MHz, sample detector, power averaging on (transmitted signal was continuous) and power integration over 100 MHz  Note 2: Measured using the same analyzer settings used for output power.  For RSS210 the measured value of the PSD (see note 3) must not exceed the average value (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB.											Pass
Note 1: RBW=1MHz, VB=3 MHz, sample detector, power averaging on (transmitted signal was continuous) and power integration over 100 MHz  Note 2: Measured using the same analyzer settings used for output power.  Note 3: For RSS210 the measured value of the PSD (see note 3) must not exceed the average value (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB.		Output no	vor moas	eurod usino	a enectrum	analyzor (c	aa nlate halay	۸/)٠			
Integration over 100 MHz  Note 2: Measured using the same analyzer settings used for output power.  Note 3: For RSS210 the measured value of the PSD (see note 3) must not exceed the average value (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB.	Note 1:			-		• (	•	,	nal was cor	itinuous) and i	oower
Note 3: For RSS210 the measured value of the PSD (see note 3) must not exceed the average value (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB.		, , , , , , , , , , , , , , , , , , , ,				• • •	·		, ,		
Note 3: measured power divided by the measured 99% bandwidth) by more than 3dB.											
	Note 2:	Measured	using the	e same ana				1.0		. /	f 11
THOLE 4: 1937/8 Dania Wildin measured in accordance with 1000 OEN 1785 of Spain and V B > 25XXB		Measured For RSS2	using the	e same ana easured va	lue of the PS	SD (see note	3) must not		average val	ue (calculated	from the
	Note 3:	Measured For RSS2 measured	using the 10 the me power di	e same and easured va vided by th	lue of the PS ne measured	SD (see note 99% bandw	e 3) must not vidth) by more	e than 3dB.		•	from the
	Note 3:	Measured For RSS2 measured	using the 10 the me power di	e same and easured va vided by th	lue of the PS ne measured	SD (see note 99% bandw	e 3) must not vidth) by more	e than 3dB.		•	from the

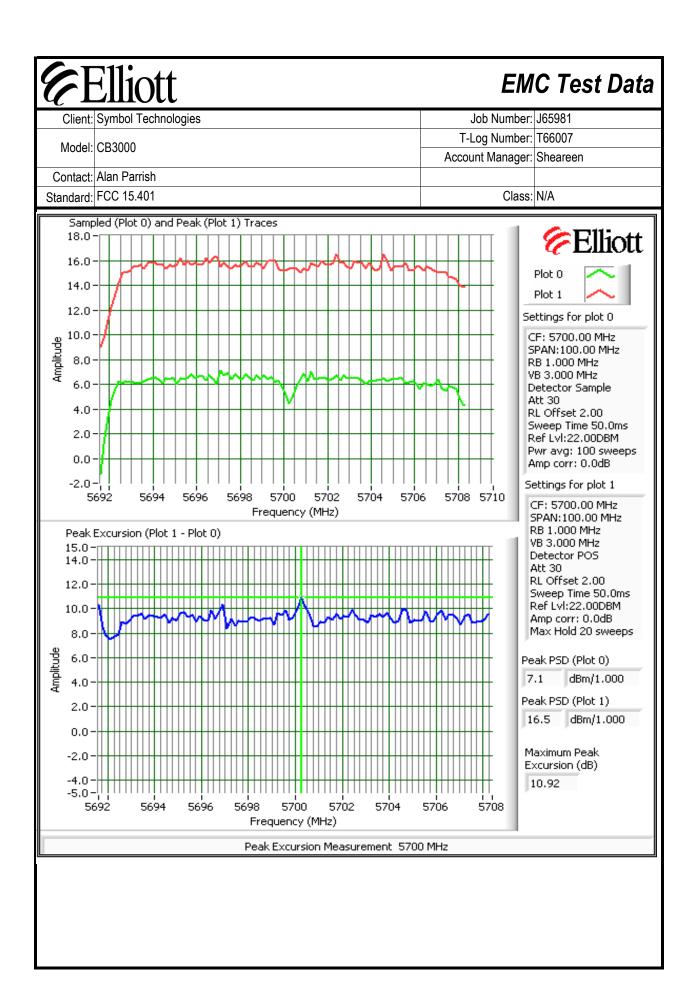




#### **EMC Test Data** Job Number: J65981 Client: Symbol Technologies T-Log Number: T66007 Model: CB3000 Account Manager: Sheareen Contact: Alan Parrish Standard: FCC 15.401 Class: N/A 10.0 Spectrum Analyzer Settings 5.0 CF: 5700.00 MHz 0.0 SPAN: 100,00 MHz RB 1.000 MHz -5.0 VB 3,000 MHz -10.0 -Detector Sample Att 30 -15.0-RL Offset 2.00 Sweep Time 50.0ms -20.0 -Ref Lvl:22,00DBM -25.0 Pwr avg: 100 sweeps Amp corr: 0.0dB -30.0 Bin size: 167 kHz Highest PSD -35.0 7.12 dBm/1.000 MHz -40.0 99% Bandwidth -45.0 17.80 MHz -50.0 Power Over Span -55.0 -94.022 mW 5650.0 5660.0 5680.0 5700.0 5720.0 5740.0 5750.0 Frequency (MHz) 19.73 dBm 99% Bandwidth, Power Over Span and PSD 5700 MHz 15.0 Analyzer Settings HP8564E,006,EMI,UK6 10.0 CF: 5700,00 MHz SPAN:50.00 MHz 5.0 RB 300 kHz VB 1.000 MHz 0.0 Detector POS -5.0 Att 30 RL Offset 2.00 -10.0 Sweep Time 50.0ms Ref Lvl:22.00DBM -15.0-20.0 Comments -25.0 26-dB 5700 MHz -30.0 5675 5680 5685 5690 5695 5700 5705 5710 5715 5720 Frequency (MHz) 5719.667 12.33 Delta Freq. 38.50 Cursor 1 Cursor 2 5681.16: -13.67 Delta Amplitude 26.00

CElliott	En.	IC Toot Data
Elliott Client: Symbol Technologies	Job Numbe	IC Test Data
	T-Log Number	
Model: CB3000	Account Manage	
Contact: Alan Parrish		
Standard: FCC 15.401	Class	s: N/A
Run #2: Peak Excursion Measurement		
Plots Showing Peak Excursion		
Trace A: RBW = 1MHz VBW = 3N Trace B: Method #1	ИHz	
Sampled (Plot 0) and Peak (Plot 1) Traces		
16.0-		<b>Elliott</b>
14.0	<del>\</del>	· Linou
		Plot 0
12.0		Plot 1
10.0		ettings for plot 0
₩ 8.0-		CF: 5500.00 MHz SPAN:100.00 MHz
8.0 - 0.0 - 0.0 - 0.0 - 0.0		RB 1.000 MHz
₹ 6.0 MANA		VB 3.000 MHz Detector Sample
4.0		Att 30 RL Offset 2.00
2.0		Sweep Time 50.0ms
0.0 -		Ref Lvl:22.00DBM Pwr avg: 100 sweeps
· · · · · · · · · · · · · · · · · · ·		Amp corr: 0.0dB
-2.0 -		Settings for plot 1
Frequency (MHz)  Peak Excursion (Plot 1 - Plot 0)	3300 3310	CF: 5500.00 MHz SPAN:100.00 MHz RB 1.000 MHz
15.0		VB 3.000 MHz Detector POS
14.0		Att 30
12.0 -	<del>                                      </del>	RL Offset 2.00 Sweep Time 50.0ms
10.0	<del>                                     </del>	Ref Lvl:22,00DBM Amp corr: 0.0dB
8.0	<u> </u>	Max Hold 20 sweeps
දී 6.0-		eak PSD (Plot 0)
9 6.0- 4.0-		6.0 dBm/1.000
		eak PSD (Plot 1)
2.0 -		15.8 dBm/1.000
0.0 -		
-2.0 -		Maximum Peak Excursion (dB)
-4.0 -		10.59
-5.0-	5508 5510	
Frequency (MHz)	3335 3315	
Peak Excursion Measurement 5500	MHz	





### **EMC Test Data** Job Number: J65981 Client: Symbol Technologies T-Log Number: T66007 Model: CB3000 Account Manager: Sheareen Contact: Alan Parrish Standard: FCC 15.401 Class: N/A Run #3: Out Of Band Spurious Emissions - Antenna Conducted Maximum Antenna Gain: 6 dBi Spurious Limit: -27 dBm/MHz eirp Limit Used On Plots Note 1: -33 dBm/MHz The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements is adjusted to take into consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field strength measurements for Note 1: signals more than 50MHz from the bands and that are close to the limit are made to determine compliance as the antenna gain is not known at these frequencies. All spurious signals below 1GHz are measured during digital device radiated emissions test. Note 2: Note 5: Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209. Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz) 20.0 Analyzer Settings HP8564E,006,EMI,UK6 10.0 CF: 20015.00 MHz SPAN:39970.00 MHz 0.0 RB 1,000 MHz VB 1.000 MHz -10.0 Detector POS Att 20 -20.0 RL Offset 2.00 Sweep Time 0.8s -30.0 Ref Lvl:12.00DBM -40.0 Comments -50.0 Out of Band 5500 MHz -60.0 5000.0 10000.0 15000.0 20000.0 25000.0 30000.0 35000.0 40000.0 30.0 Frequency (MHz) **♦ -**\*- 8-36669.16 -42.67 Delta Freq. 36743.26 Cursor 1 Delta Amplitude 9.67 Cursor 2 -74.089

